

Application/Control Number: 10/538,838
Art Unit: 1617
November 25, 2009
Page 4

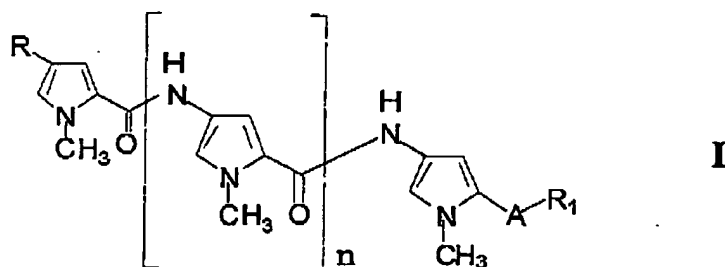
Amendments to the Claims.

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-8. (Cancelled)

9. (Currently amended) A method for prophylaxis and/or treatment of endoparasitosis in an animal, comprising administration to the animal of an effective amount of a compound having the following formula (I):



wherein:

n is 0 or an integer comprised between 1 and 5;

R is a group $R_2-X-C(=Z)-NH-$, in which X represents a simple chemical bond, an aromatic or heteroaromatic radical, Z represents an oxygen atom or the NH group; and:

if X is a simple chemical bond, R₂ is an hydrogen atom, an alkyl, dialkylaminoalkyl, alkenyl, cycloalkyl, arylalkyl, arylalkenyl, haloalkyl, or an aromatic or heteroaromatic radical;

if X is an aromatic or heteroaromatic radical, R₂ is nitro, amino or formylamino;

or:

R is a group $R_3-C(=Z)-$, in which Z represents an oxygen atom or the NH group, and R₃ represents a hydrogen atom, the -OR₄ or -NR₅R₆ group, and where:

R₄ is chosen from the group consisting of a hydrogen atom, an alkyl, cycloalkyl, arylalkyl, or an aromatic radical;

Application/Control Number: 10/538,838
Art Unit: 1617
November 25, 2009
Page 5

R5 and R6, either the same or different, are chosen from the group consisting of a hydrogen atom, an alkyl, cycloalkyl, arylalkyl, aromatic or heterocyclic radical, optionally substituted with a formylamino or a carbamoyl group; or

R5 and R6, joined together form an alkylene group, or the group $-(CH_2)_2-O-(CH_2)_2-$ or the group $-(CH_2)_2-NH-(CH_2)_2-$;

A represents a simple chemical bond or the group $-CO-NH-Y-$, wherein Y is an alkylene or aromatic radical;

R1 is chosen from the group consisting of $CH_2N(CH_3)_2$, $-COOR_4$, $-B-NR_5R_6$, $-C(=NH)-NH_2$, a heterocyclic radical containing nitrogen, wherein:

R4, R5 and R6 are as defined above, B represents a simple chemical bond or the $-C=O$ group, and:

when R1 is $-B-NR_5R_6$, and B is a simple chemical bond, or when R1 is a heterocyclic radical, A is not a chemical bond;

or a pharmaceutical acceptable salt thereof in association or combination with a cyclodextrin.

10. (Previously submitted) The method of Claim 9, wherein the compound of formula (I) is chosen between distamycin and a compound of formula (I) wherein:

n is as previously defined;

R is the $-CONH_2$ group, A is the $-CONHCH_2CH_2-$ group, R1 is the $-C(=NH)-NH_2$ group or the $-CH_2N(CH_3)_2$ group;

R is the $-NH-CH(=NH)$ group, A is the $-CONHCH_2CH_2-$ group, R1 is the $-C(=NH)-NH_2$ group or the $-CH_2N(CH_3)_2$ group or the $-CONH_2$ group;
and the pharmaceutically acceptable salts thereof.

11. (Previously submitted) The method according to Claim 9, wherein the endoparasitosis is chosen from Trichomoniasis, Giardiasis, Isomoniasis, Amoebiasis, Coccidiosis, and Balantidiosis.

12. (Previously submitted) The method according to Claim 9, wherein the administration is oral administration.

Application/Control Number: 10/538,838
Art Unit: 1617
November 25, 2009
Page 6

13. (Currently amended) The method according to Claim 9~~1~~, wherein the compound of formula (I) is a compound of formula (I) wherein n is 0 or an integer from 1 to 5; R is a -CONH₂ group; A is a -CONHCH₂CH₂- group, and R₁ is a -C(=NH)-NH₂ group, and the endoparasitosis is Coccidiosis.